

PRODUCT BULLETIN
GYPSUM PRODUCTS

GYPSUM BOARD
1/2" REGULAR

BULLETIN NO: B-3
DATE: 12/1/77
PAGE: 1 of 2

APPROVALS:

L.R. of [signature]

A.S.T.M. C-36

CANCELS: B-3
DATE: 9/12/75

PRODUCING PLANTS: Long Beach, Antioch, Seattle

CORE FORMULA (lbs/MSF):

Board Stucco	(S-1)	1250 - 1400
Paper Fiber	(B-G-1)	0 - 15
Glass Fiber	(B-G-1)	0 - 1.5
Starch	(RM-B-11)	7 - 12
with sanders		5 - 8
Dextrose	(RM-B-3)	0 - 3
Foaming Agent	(B-G-1)	0.2 - 1.4
Lignin - Dry Powder	(B-G-1)	2.5 - 3.5
- Liquid (Seattle)	(B-G-1)	5.0 - 7.0
End Trim	(B-G-1)	10 - 40
Potassium Sulfate	(B-G-1)	0 - 2.0
Retarder	(B-G-1)	0 - 0.5
Hydrated Lime	(RM-P-3)	0 - 0.5
Boric Acid	(B-G-1)	0 - 1.0

Paper Liners (RM-B-1): Use Grade #7001 Manila and Grade #7002 Greyback for face and back paper respectively, except use Grade #7010 Partition Board Manila and Grade #7013 Partition Board Greyback for face and back paper respectively on all 1/2" board manufactured for use in partitions.

OPERATING SPECIFICATIONS: Refer to Process Bulletin B-G-2 for General Operating Specifications.

1. Slurry Slump (inches) $4\frac{1}{2}$ - 8
2. Slurry Setting Time (minutes) 2 - $4\frac{1}{2}$
3. Wet Slurry Weight (lbs/cu. ft.) 62 - 70
4. Wet Compressive Strength, psi 150 - 300

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PRODUCT SPECIFICATIONS: (Refer to Product Bulletin B-G-4 for General Finished Product Specifications).

	Acceptance Limits		Control Values		
	Min.	Max.	Min.	Std.	Max.
Wet Weight (lbs/MSF)			2600		2875

TAKE-OFF TESTS

Dry Weight (lbs/MSF)*	1650	1825	1700	1750	1850
Evaporation Loss (lbs/MSF)			700		900
Thickness, Average (inch)	0.484	0.516	0.484	0.490	0.510
Thickness, indiv. rdg. (inch)	± 0.010 from avg.		± 0.010 from average.		
Twist Test, tested hot face & back (inch)				0	2
End Peel, tested @ 1-2 hours face and back (inch)				0	1
Bond Test, tested @ 1-2 hours face and back (inch)		2		0	1
Falling Ball Impact (inch)			0.020		0.050
Edge Hardness (lbs)	8		10	14	18

STANDARD CONDITIONED SAMPLE TESTS

Flexural Strength, (lbs)					
Across			140	150	
Parallel	40		40	50	
Deflection @ Break (inch)					
Across	0.30		0.30	0.35	
Parallel	0.20		0.20	0.25	
Punch Test (lbs)	550	900	550	600	900
End Peel after Sawing		1		0	1/2
Twist Test (inch)					
face and back		2		0	1
High Humidity Bond (inch)					
face and back		1		0	1
Nail Pull Resistance	80		80	90	

* NOTE: Board manufactured outside the specified dry weight ranges may be shipped provided board conforms to all other finished product specifications.